BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE Safety Procedures	**Number:** LS-PSG-S002	**Revision:** B
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Subject:
MODULATOR HIGH VOLTAGE LOCKOUT TAGOUT

Prepared By: M.L. Fulkerson	**Approved By:** M.L. Fulkerson	**Approved By:** J. Rose

Revision/Review Log

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1. **Turn off High Voltage Power Supply via control switch, red light, front panel. (There will be no lights if supply is off due to fault)**
2. **Turn off 208VAC switch, labeled Kly1, Kly2 or Kly3, for appropriate modulator.**
   Note: This switch does not turn off thyratron or low-level supplies.
3. **Lock and tag out safety switch in accordance with BNL ES&H standard 1.5.1. Each authorized person shall attach his/her own lock and tag.**
4. **Verify that the High Voltage Power Supply cannot be turned on.**
5. **Check grounding stick connection.**
6. **Open door to PFN cabinet, observe mechanical and electrical shorting switches have closed.**
7. **Using grounding stick, short all capacitors.**
8. **Hang grounding stick on High Voltage input terminal. (Left side of top charging resistor.)**

Undo Lockout Tagout

1. **Before removal of last tag:**
   - ❑ **Check that all connections have been properly made, no tools or equipment have been left in cabinet and all panels and covers are in place.**
   - ❑ **Verify that all personnel are clear of danger.**
2. **Remove grounding stick from High Voltage terminal.**
3. **Close door to PFN cabinet and return grounding stick to its proper location on the rear door.**
4. **Lock door with key and store key in designated area.**
5. **Remove lock and tag from 208VAC switch in accordance with BNL ES&H standard 1.5.1.**
6. **Turn on AC switch.**